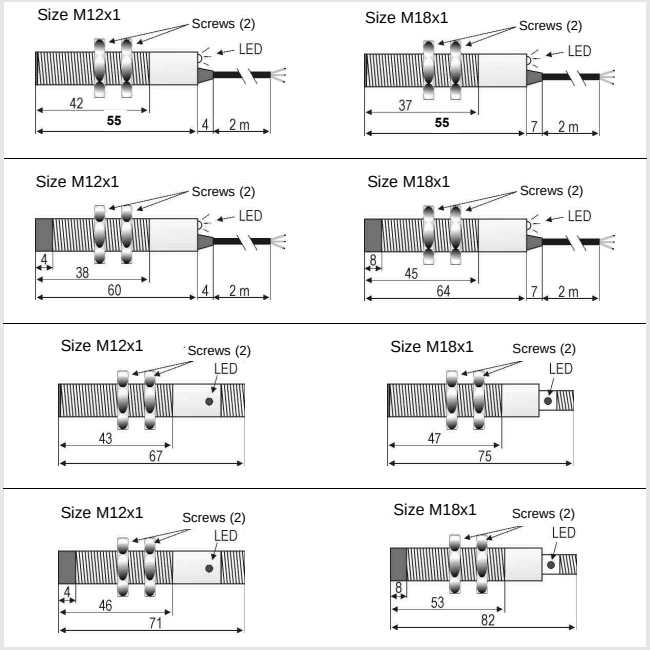
# Inductive sensors Technical data

## FL Series

- Inductive sensor with 3 wire output (PNP or NPN)
- Cable or connector output models
- LED Function indicator
- Anti-interference
- Anti-shock protection
- Degree of protection IP-66

## Dimensions (mm)




## Technical specifications

| Size | M12x1 | | M18x1 | |
|---|---|---|---|---|
| Detction distance (mm) | 2 | 4 | 5 | 8 |
| Response frequency | 800 Hz | | 400 Hz | |
| Hysteresis | Less than 10% stipulate distance | | | |
| Power voltagen | 10 to 30 Vdc | | | |
| Control output | 200 mA (ohmic) / 100 mA (inductive) | | | |
| Residual voltage | 2 V ( at 24 Vdc and 200 mA) | | | |
| Leakage current | 0.5 mA ( at 24 Vdc) | | | |
| Ambient temperature | -10º C to +65ºC | | | |
| Insulation resistance | ≥100 MΩ (at 500 Vdc) | | | |
| Dielectric strength | 1000 Vac, 1 minute (at 50/60Hz) | | | |
| Indication | red LED (NPN), green LED (PNP) | | | |
| Degree of protection IEC | IP-66 | | | |
| Material | Case: Brass, Face: ABS | | | |
| Connector (reference C) | Male, 4 pin (M12x1), brass made | | | |
| Aerial connector | Female, 4 pin (3 wire cable: 2 m) | | | |

## Available types

FL - ___ ___ ___ - ___ - ___

| Model | |
|---|---|
| FL | Inductive |

| Shape | |
|---|---|
| 12 | Screw M12 |
| 18 | Screw M18 |

| Output type | |
|---|---|
| N | NPN |
| P | PNP |

| Detection distance | |
|---|---|
| 02 | 2 mm |
| 04 | 4 mm |
| 05 | 5 mm |
| 08 | 8 mm |

| Output status | |
|---|---|
| E1 | N.A. |

| Connection | |
|---|---|
| - | Cable |
| C | Connector |

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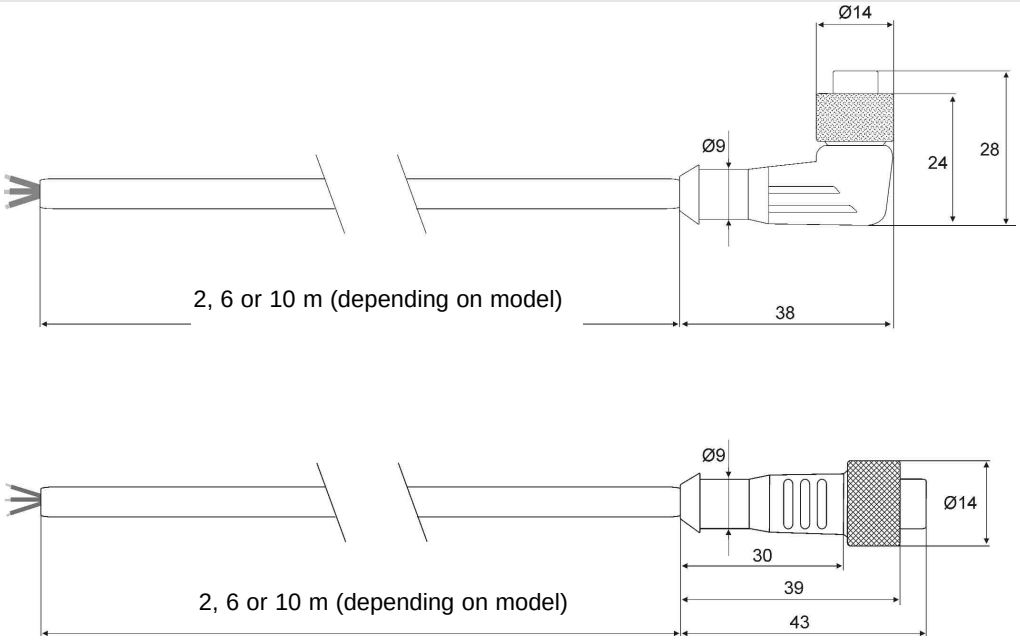
## Connectors for FL Series

- M12x1 aerial female connectors
- 4 pines
- Cable available in several lengths
- 3 wire connection (Blue, Brown and Black)
- Straight execution or with 90º angle
- Metallic screw

## Dimensions (mm)




## Available types

FLZ - 

| Model | |
|---|---|
| FLZ | Connector |

| Shape | |
|---|---|
| R | Straight |
| A | 90º angle |

| Cable length | |
|---|---|
| 02 | 2 m |
| 06 | 6 m |
| 10 | 10 m |